

09330000 FREMONT RIVER NEAR BICKNELL, UT

LOCATION.--Lat 38°18'25", long 111°31'05", in SW¹/4 NE¹/4 NW¹/4 sec. 7, T. 29 S., R. 4 E., Wayne County, Hydrologic Unit 14070003, on left bank 150 ft upstream of county road bridge, 1.2 mi downstream of Pine Creek, and 2.9 mi southeast of Bicknell along Highway U-24.

DRAINAGE AREA.--751 mi².

PERIOD OF RECORD.--May 1909 to December 1912 (published as "near Thurber") October 1937 to September 1958 (1944-46, fragmentary), October 1976 to current year.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,920 ft above sea level, from topographic map. May 1909 to December 1912, staff gage near present site. October 1937 to June 28, 1949, staff gages on two canals and river station about 0.25 mi downstream. June 28, 1949 to April 29, 1958, water-stage recorders on river and canal site. April 29 to September 30, 1958, staff gage on river at site 600 ft further downstream from water-stage recorder. October 1, 1976 to April 2, 1990, water-stage recorder at site about 150 ft downstream at datum 3.00 ft higher. Gages at different datums prior to 1976.

REMARKS.--Records good except for periods of heavy moss growth in the channel from June to November and estimated daily discharges, which are poor. Diversions for irrigation of about 10,600 acres above station. Flow regulated by Fish Lake, Johnson, Forsyth, and Mill Meadow Reservoirs (combined capacity about 232,000 acre-ft).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,360 ft³/s, Mar 21, 1997 (could have been less due to backwater from bridge abutment), gage height, 7.02 ft, from rating curve extended above 770 ft³/s, maximum gage height, 7.59 ft Apr 24, 1998; minimum observed discharge, 18 ft³/s, Jun 2, 4, 13, 14, 15, 17, 18, 1912.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 598 ft³/s, Mar 24, gage height, 6.05 ft; minimum daily discharge, 50 ft³/s, Jun 12.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	125	94	90	e88	99	81	71	66	54	61	e75
2	68	121	93	90	88	99	145	79	63	56	65	e80
3	68	112	93	89	91	101	201	95	63	59	69	e75
4	69	110	93	91	96	99	110	98	62	61	74	e72
5	73	109	94	92	105	101	79	94	61	60	72	e72
6	75	105	94	93	104	102	74	85	59	59	69	e70
7	73	104	96	94	100	114	71	85	60	60	74	e72
8	74	104	99	89	95	107	74	84	66	64	85	e75
9	74	108	98	94	e86	103	72	85	65	68	e80	e75
10	77	112	96	96	90	106	75	85	59	65	e75	e77
11	83	108	e95	97	91	109	74	86	56	66	e75	e75
12	82	e100	95	99	92	101	73	82	e50	67	e70	e77
13	78	e92	e95	96	94	100	67	84	e52	71	e65	e77
14	76	e94	94	96	95	98	67	98	e55	82	e75	e80
15	76	e96	e94	96	e94	96	69	97	58	90	e75	77
16	78	e92	e85	95	91	98	71	90	56	77	e70	74
17	76	e85	88	e90	92	96	76	85	54	70	e75	74
18	75	e82	e82	e84	96	99	109	84	53	64	e70	73
19	75	84	77	e88	98	98	142	85	53	60	e72	74
20	76	89	85	91	99	100	97	84	53	59	e75	74
21	78	90	85	e90	99	118	80	72	55	59	e80	76
22	85	92	87	90	100	165	75	71	55	59	e80	73
23	149	93	86	89	102	334	75	68	55	60	e100	72
24	169	94	87	90	96	443	75	65	56	60	e80	69
25	122	92	88	92	97	362	74	67	55	61	e75	68
26	114	95	e88	91	98	233	74	71	54	65	e70	68
27	124	99	85	93	99	236	76	69	60	68	e70	67
28	142	100	89	93	102	156	77	69	62	64	e70	66
29	124	98	88	e92	---	108	76	74	56	62	e72	68
30	119	97	88	e90	---	84	76	71	54	60	e75	69
31	127	---	89	e86	---	74	---	68	---	61	e75	---
TOTAL	2851	2982	2800	2846	2678	4339	2585	2501	1726	1991	2293	2194
MEAN	92.0	99.4	90.3	91.8	95.6	140	86.2	80.7	57.5	64.2	74.0	73.1
MAX	169	125	99	99	105	443	201	98	66	90	100	80
MIN	68	82	77	84	86	74	67	65	50	54	61	66
AC-FT	5650	5910	5550	5650	5310	8610	5130	4960	3420	3950	4550	4350

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2001, BY WATER YEAR (WY)

MEAN	86.7	91.0	86.5	89.2	96.6	111	121	87.7	71.9	68.7	75.6	78.0
MAX	145	140	133	131	135	243	412	163	174	135	139	119
(WY)	1985	1985	1985	1985	1984	1997	1987	1985	1984	1984	1984	1984
MIN	54.1	59.7	63.7	66.1	70.0	66.4	63.3	58.7	46.1	50.7	46.3	51.4
(WY)	1980	1980	1979	1980	1980	1980	1981	1980	1980	1980	1980	1978

DIRTY DEVIL RIVER BASIN

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SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1977 - 2001
ANNUAL TOTAL	30546	31786	88.6
ANNUAL MEAN	83.5	87.1	138 1985
HIGHEST ANNUAL MEAN			60.2 1980
LOWEST ANNUAL MEAN			965 Mar 21 1997
HIGHEST DAILY MEAN	169 Oct 24	443 Mar 24	34 Jul 31 1986
LOWEST DAILY MEAN	50 Jun 11	50 Jun 12	38 Jul 29 1986
ANNUAL SEVEN-DAY MINIMUM	51 Jun 7	54 Jun 12	
ANNUAL RUNOFF (AC-FT)	60590	63050	64170
10 PERCENT EXCEEDS	106	105	117
50 PERCENT EXCEEDS	85	84	83
90 PERCENT EXCEEDS	58	61	57

e Estimated

